$\label{eq:Vegetation Unit Summaries for George Himes Park (GH)} Vegetation Unit Summaries for George Himes Park (GH)$

Report date: 7/29/2009 '*' = non-native invasive species

Visit data as of: 7/29/2009

Unit GH*001

Size: 1.37 Acres
NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: South

Visit date: 6/11/2003

Ecological Health: Poor. **% Tree canopy:** 65%

% Non-Native Cover: not recorded

General Note:

Stream/sewer line is buried.

Management Note:

Several homeless camps under Hillsdale hwy. Consider making northern creek bottom its own individual unit.

COVER CLASS DOMINANT

DECEMEDATING

Eco Note:

More ivy in trees than any of the other units. ACMA3 is clonal.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils.

Primary Management concerns: Invasives, Litter, Large Refuse, Utility Infrastructure,

Homeless Camp.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Acer platanoides (Norway maple)	50% to 75%	Y	5-10"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		20-30"		
Corylus cornuta (western beaked hazelnut)	10% to 20%				
Rubus discolor (Himalayan blackberry)	10% to 20%				
Clematis vitalba (clematis)	1% to 10%				
Holodiscus discolor (oceanspray)	1% to 10%				
Polystichum munitum (sword fern)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Crataegus monogyna (European hawthorn)	trace				
Rhamnus purshiana (cascara)	trace				

Unit GH*002

Size: 3.2 Acres

NVCS Class: Forest

NVCS Subclass: Deciduous forest NVCS Group: Cold-deciduous forest NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.846 North Pacific Broadleaf Mesic Seral Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: South

Visit date: 6/11/2003

Ecological Health: Poor. **% Tree canopy:** 75%

% Non-Native Cover: not recorded

General Note:

Where the bridge/road is elevated there is evidence of camping. Sewer/water line buried.

Management Note:

Noise pollution and litter from the highway.

Eco Note:

Discovered the native mollusk on unit-Monadenia fidelis fidelis, one shell and one entire organism. Natural ravine running down through the park.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils.

Primary Management concerns: Invasives, Litter, Large Refuse, Utility Infrastructure, Homeless Camp.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"		
Acer platanoides (Norway maple)	50% to 75%	Y	5-10"		
Rubus discolor (Himalayan blackberry)	10% to 20%				
Clematis vitalba (clematis)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Polystichum munitum (sword fern)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Acer circinatum (vine maple)	trace				
Vaccinium parvifolum (red huckleberry)	trace				

Unit GH*003

Size: 3.45 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: North

Visit date: 6/11/2003

Ecological Health: Poor. **% Tree canopy:** 65%

% Non-Native Cover: not recorded

Management Note:

Immediate action needed on ACPL--take care of ILAQ at the same time. ACPL planting near road are seeding invasion into park.

Eco Note:

Utility main/stream buried. Species of interest: Asarum caudatum

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water

Primary Management concerns: Invasives, Litter, Utility Infrastructure, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"		
Oemleria cerasiformis (Indian-plum)	50% to 75%	Y			
Hedera helix (English ivy)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%		>30"		
Acer platanoides (Norway maple)	20% to 50%		5-10"		
Populus balsamifera ssp. trichocarpa (black cott	10% to 20%		>30"		
Thuja plicata (western red cedar)	10% to 20%		20-30"		
Sambucus racemosa (red elderberry)	10% to 20%				
Tsuga heterophylla (western hemlock)	1% to 10%		>30"		
Alnus rubra (red alder)	1% to 10%		5-10"		
Acer circinatum (vine maple)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Pinus contorta (lodgepole pine)	trace		5-10"		
Asarum caudatum (wild ginger)	trace				
Vaccinium parvifolum (red huckleberry)	trace				

Unit GH*004

Size: 2.34 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: North

Visit date: 6/10/2003

Ecological Health: Poor. **% Tree canopy:** 75%

% Non-Native Cover: not recorded

Eco Note:

Pipe main running through creek bed--creek buried at end of plot.

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Litter, Utility Infrastructure, Informal Trails. **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"		
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Athyrium filix-femina (ladyfern)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Sambucus racemosa (red elderberry)	10% to 20%				
Populus balsamifera ssp. trichocarpa (black cott	1% to 10%		20-30"		

Tsuga heterophylla (western hemlock)	1% to 10%	20-30"	Y
Thuja plicata (western red cedar)	1% to 10%	10-20"	Y
Aesculus hippocastanum (horsechestnut)	1% to 10%	0-5"	
Acer circinatum (vine maple)	1% to 10%		
Adiantum pedatum (maidenhair fern)	1% to 10%		
Berberis nervosa (Oregon grape)	1% to 10%		
Clematis vitalba (clematis)	1% to 10%		
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%		
Ilex aquafolium (English holly)	1% to 10%		
Rubus discolor (Himalayan blackberry)	1% to 10%		
Rubus parviflorus (thimbleberry)	1% to 10%		
Tellima grandiflora (fringecup)	1% to 10%		
Tolmiea menziesii (piggy-back plant)	1% to 10%		
Vancouveria hexandra (white inside-out-flower)	1% to 10%		
Acer platanoides (Norway maple)	trace	0-5"	

Unit GH*005

Size: 3.53 Acres NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Northeast

Visit date: 6/11/2003

Ecological Health: Poor. **% Tree canopy:** 80%

% Non-Native Cover: not recorded

General Note:

ODF&W and OSU doing a biodiversity study

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing

Water.

Primary Management concerns: Invasives, Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	10-20"		
Hedera helix (English ivy)	20% to 50%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%	Y	>30"		
Oemleria cerasiformis (Indian-plum)	10% to 20%	Y			
Acer platanoides (Norway maple)	10% to 20%		5-10"		
Berberis nervosa (Oregon grape)	10% to 20%				
Ilex aquafolium (English holly)	10% to 20%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Convolvulus arvensis (morning glory)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Polystichum munitum (sword fern)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Vaccinium parvifolum (red huckleberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Tsuga heterophylla (western hemlock)	trace		10-20"		
Acer circinatum (vine maple)	trace				
Corylus cornuta (western beaked hazelnut)	trace				
Rosa gymnocarpa (dwarf wood rose)	trace				
Smilacina racemosa (false Solomon's-seal)	trace				

Unit GH*006

Size: 3.45 Acres

NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

Aspect: North

Visit date: 6/10/2003

Ecological Health: Fair. % Tree canopy: 70%

% Non-Native Cover: not recorded

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing

Water.

Primary Management concerns: Invasives, Litter, Informal Trails.

Visit Species:

-	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		Y
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Berberis nervosa (Oregon grape)	20% to 50%	Y			
Ilex aquafolium (English holly)	20% to 50%	Y			
Sambucus racemosa (red elderberry)	20% to 50%	Y			
Acer circinatum (vine maple)	10% to 20%				
Oemleria cerasiformis (Indian-plum)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Rubus parviflorus (thimbleberry)	10% to 20%				
Tsuga heterophylla (western hemlock)	1% to 10%		20-30"		Y
Thuja plicata (western red cedar)	1% to 10%		10-20"		Y
Sorbus aucuparia (European mountain ash)	1% to 10%		0-5"		
Athyrium filix-femina (ladyfern)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Disporum hookeri (Hooker's fairybells)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Prunus laurocerasus (English laurel)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Acer platanoides (Norway maple)	trace		0-5"		
Adiantum pedatum (maidenhair fern)	trace				
Geum macrophyllum (largeleaf avens)	trace				
Tellima grandiflora (fringecup)	trace				

Unit GH*007

Size: 3.34 Acres

NVCS Class: Woodland

NVCS Subclass: Mixed evergreen-deciduous woodland

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous woodland

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Ridge top/peak > 120'

Slope: Flat (0 to 5%) **Aspect:** North

Visit date: 6/10/2003

Ecological Health: unknown.

% Tree canopy: 55%

% Non-Native Cover: not recorded

General Note:

Road runs East/West through unit. Park on ridge takes up majority of plot.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Domestic Animals, Litter, Yard Debris, Utility Infrastructure, Hardscape Infrastructure, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Berberis nervosa (Oregon grape)	20% to 50%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%	Y	>30"	Y	
Pseudotsuga menziesii (Douglas fir)	10% to 20%	Y	10-20"		
Hedera helix (English ivy)	10% to 20%				
Acer platanoides (Norway maple)	1% to 10%		0-5"		
Bellis officinalis (English Daisy)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Geum macrophyllum (largeleaf avens)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Polystichum munitum (sword fern)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Viola glabella (stream violet)	1% to 10%				
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Disporum hookeri (Hooker's fairybells)	trace				
Petasites frigidus (coltsfoot)	trace				
Philadelphus lewisii (Lewis' mockorange)	trace				
Prunus laurocerasus (English laurel)	trace				
Rhamnus purshiana (cascara)	trace				

Unit GH*008

Size: 5.12 Acres
NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Middle 3rd **Slope:** Extremely Steep (over 30%)

Aspect: Southeast

Visit date: 6/10/2003

Ecological Health: Fair. **% Tree canopy:** 70%

% Non-Native Cover: not recorded

Eco Note:

Species of interest: Monotropa uniflora found on site near large ILAQ/PSME

Wetland indicators: Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water

Primary Management concerns: Invasives, Litter, Utility Infrastructure, Informal Trails. **Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	20-30"		
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Hydrophyllum tenuipes (Pacific waterleaf)	20% to 50%				
Rubus discolor (Himalayan blackberry)	10% to 20%				
Rubus parviflorus (thimbleberry)	10% to 20%				
Fraxinus latifolia (Oregon ash)	1% to 10%		10-20"		

Acer circinatum (vine maple)	1% to 10%		
Berberis nervosa (Oregon grape)	1% to 10%		
Clematis vitalba (clematis)	1% to 10%		
Corylus avellana (common filbert)	1% to 10%		
Corylus cornuta (western beaked hazelnut)	1% to 10%		
Crataegus monogyna (European hawthorn)	1% to 10%		
Ilex aquafolium (English holly)	1% to 10%		
Polystichum munitum (sword fern)	1% to 10%		
Prunus laurocerasus (English laurel)	1% to 10%		
Sambucus racemosa (red elderberry)	1% to 10%		
Tolmiea menziesii (piggy-back plant)	1% to 10%		
Vancouveria hexandra (white inside-out-flower)	1% to 10%		
Acer platanoides (Norway maple)	trace	0-5"	Y
Monotropa uniflora (indianpipe)	trace		

Unit GH*009

Size: 5.89 Acres
NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd **Slope:** Extremely Steep (over 30%)

Aspect: North

Visit date: 6/9/2003

Ecological Health: Poor. **% Tree canopy:** 60%

% Non-Native Cover: not recorded

General Note:

Portland State currently conducting bird study in unit.

Eco Note:

Creek is piped or buried halfway down ravine. Unit consists of north facing slope with creek at bottom running east.

Wetland indicators: Streams, Hydrophilic Vegetation, Surface Water, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Invasives, Utility Infrastructure, Informal Trails. **Visit Species:**

	COVER CLASS	DOMINANI	рып	REGENERALING	PLANIED
Hedera helix (English ivy)	50% to 75%	Y			
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Acer macrophyllum (bigleaf maple)	10% to 20%	Y	20-30"	Y	
Polystichum munitum (sword fern)	10% to 20%				
Rubus parviflorus (thimbleberry)	10% to 20%				
Pseudotsuga menziesii (Douglas fir)	1% to 10%		20-30"		
Acer circinatum (vine maple)	1% to 10%				
Athyrium filix-femina (ladyfern)	1% to 10%				
Clematis vitalba (clematis)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Equisetum telmateia (giant horsetail)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oenanthe sarmentosa (Pacific water-parsely)	1%	to 10%			
Sambucus racemosa (red elderberry)	1% to 10%				
Tolmiea menziesii (piggy-back plant)	1% to 10%				
Adiantum pedatum (maidenhair fern)	trace				
Prunus laurocerasus (English laurel)	trace				